

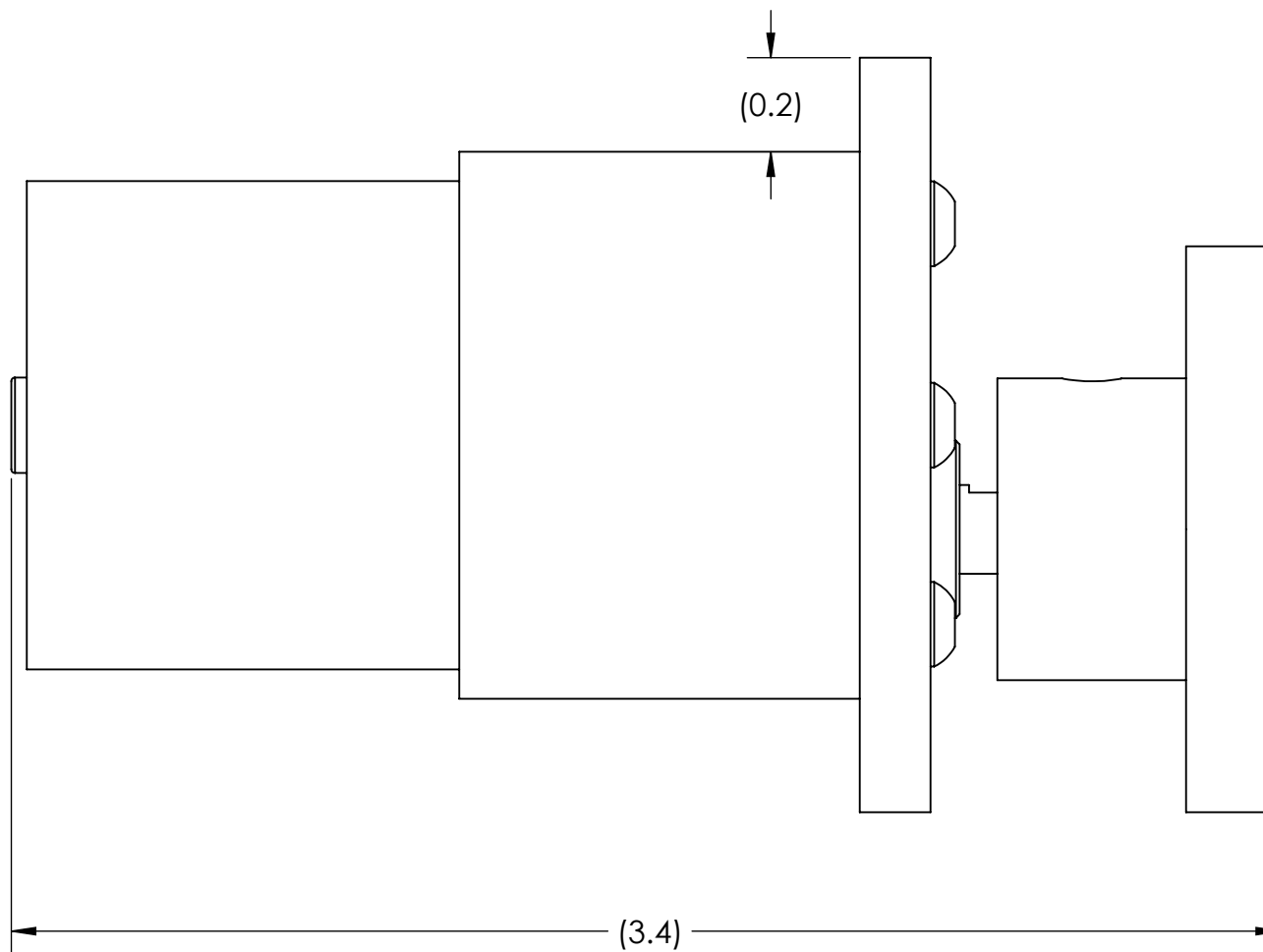
NOTES:
1. DIMS IN INCHES
2. QTY: 1

TITLE:
BUCKET MANIPULATOR MOTOR ASSEMBLY

DRAWN MARK YEN

DESIGNED MARK YEN

TOLERANCE UNLESS NOTED				DESIGNED MARK YEN		
DIMENSION TYPE	PLACES IN DIMENSION			SIZE A	DWG. NO. EML2322L-A-012	REV A
	0.0	0.00	0.000			
LOCATIONAL	±0.050	±0.020	±0.005			
ANGULAR	±5	±2	±0.5			
				SCALE: 2:1		SHEET 1 OF 4



NOTES:
 1. DIMS IN INCHES
 2. QTY: 1

TITLE:
 BUCKET MANIPULATOR MOTOR ASSEMBLY

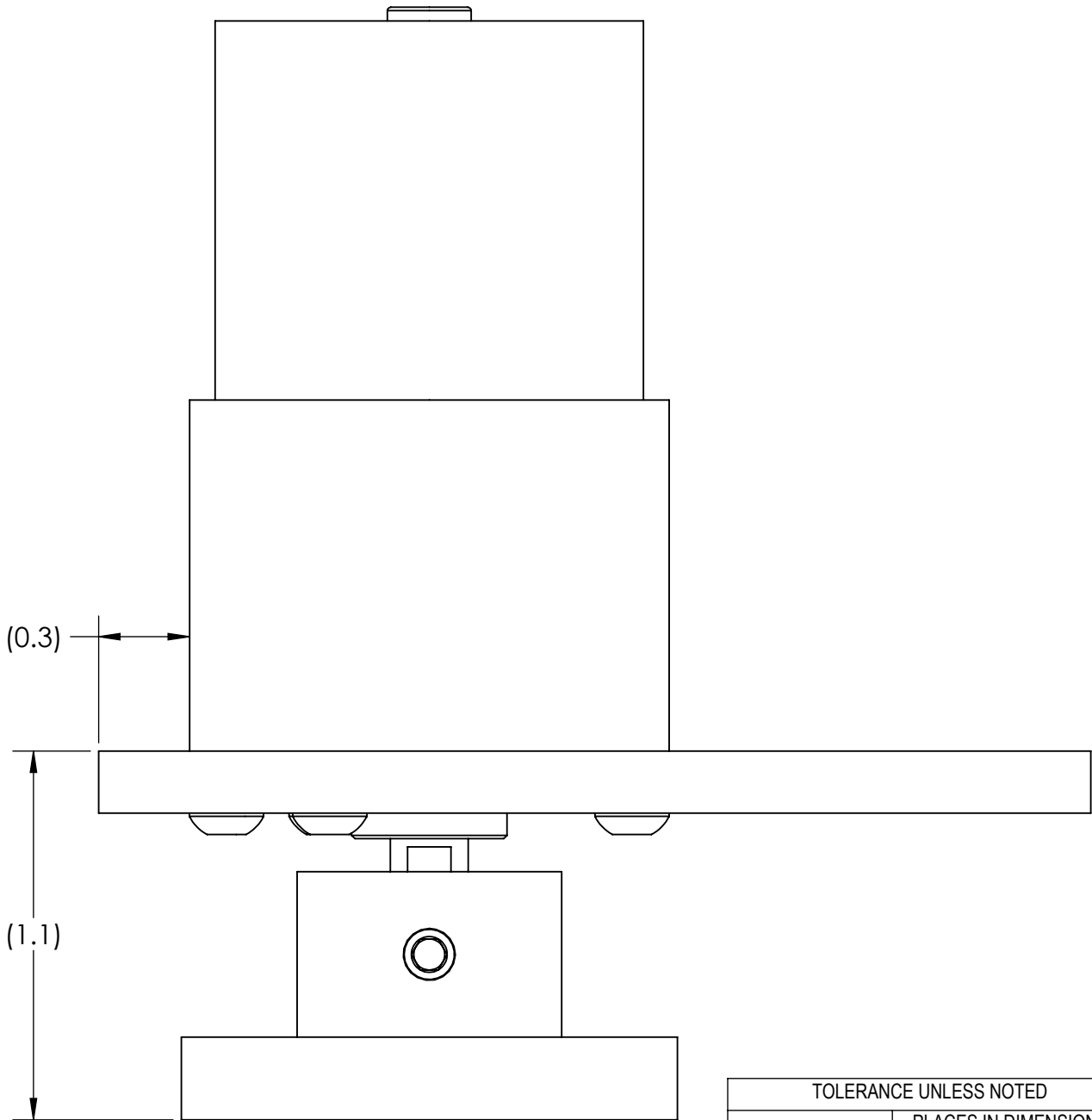
DRAWN MARK YEN

DESIGNED MARK YEN

TOLERANCE UNLESS NOTED				SIZE	DWG. NO.	REV
DIMENSION TYPE	PLACES IN DIMENSION			A	EML2322L-A-012	A
	0.0	0.00	0.000			
LOCATIONAL	±0.050	±0.020	±0.005			
ANGULAR	±5	±2	±0.5			

SCALE: 2:1

SHEET 2 OF 4

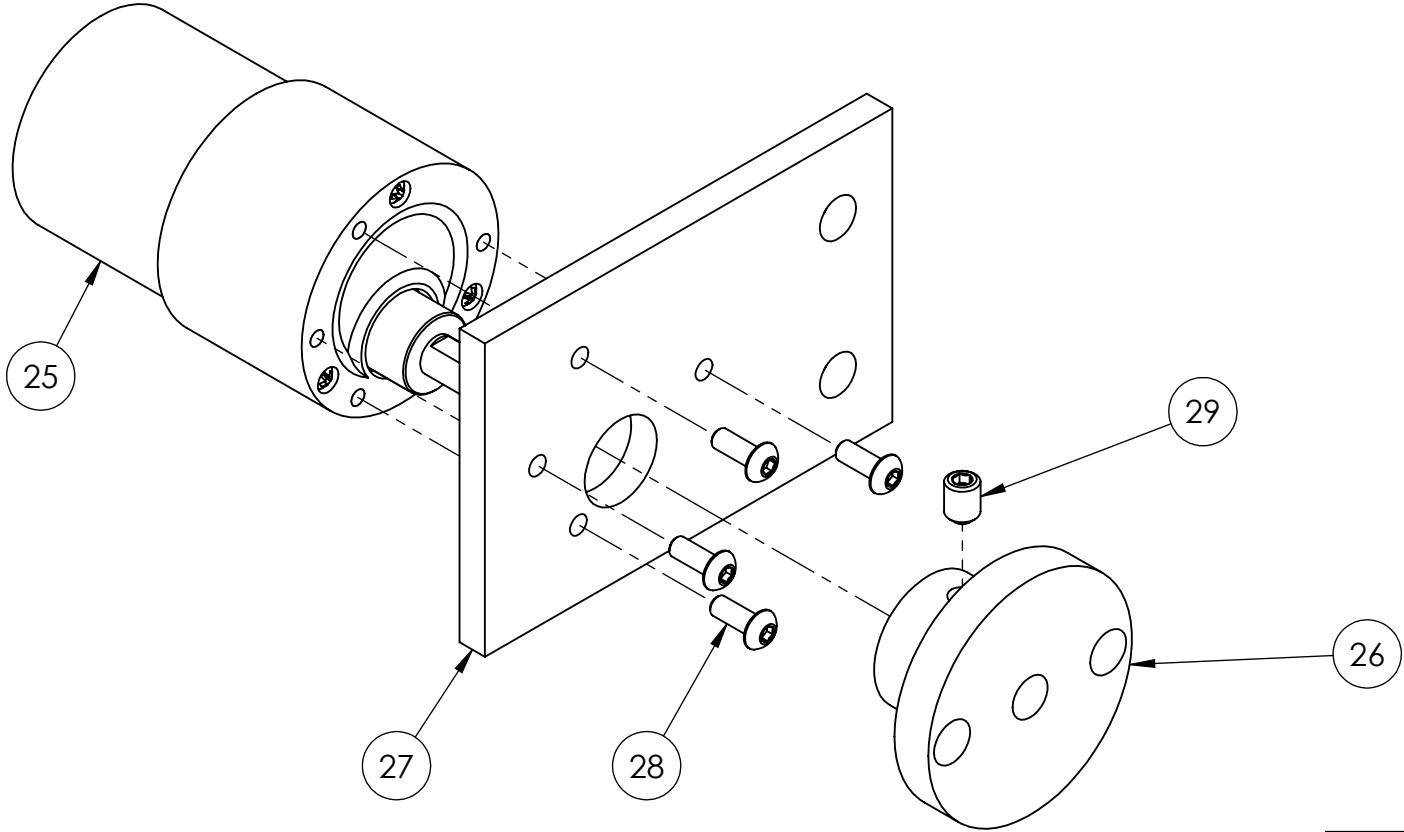


NOTES:
1. DIMS IN INCHES
2. QTY: 1

TITLE: BUCKET MANIPULATOR MOTOR ASSEMBLY			
DRAWN		MARK YEN	
DESIGNED		MARK YEN	
SIZE	DWG. NO.		REV
A	EML2322L-A-012		A
SCALE: 2:1		SHEET 3 OF 4	

TOLERANCE UNLESS NOTED			
DIMENSION TYPE	PLACES IN DIMENSION		
	0.0	0.00	0.000
LOCATIONAL	±0.050	±0.020	±0.005
ANGULAR	±5	±2	±0.5

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
25	EML2322L-0025	15 RPM SEI GEAR MOTOR	1
26	EML2322L-0026	BUCKET MANIPULATOR MOTOR HUB	1
27	EML2322L-0027	BUCKET MANIPULATOR MOTOR MOUNT	1
28	EML2322L-0028	M3 x 0.5 - 8 mm ROUND HEAD SCREW	4
29	EML2322L-0029	10-24 x 0.25 in SET SCREW	1



NOTES:
 1. DIMS IN INCHES
 2. QTY: 1

TITLE:
 BUCKET MANIPULATOR MOTOR ASSEMBLY

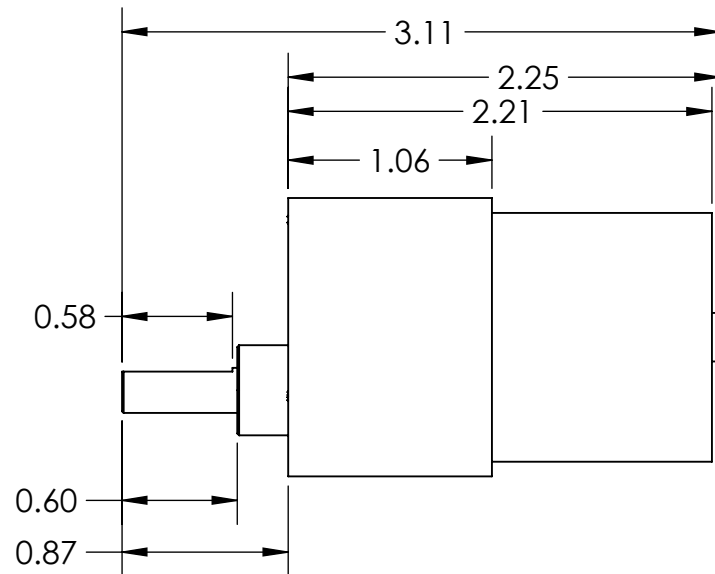
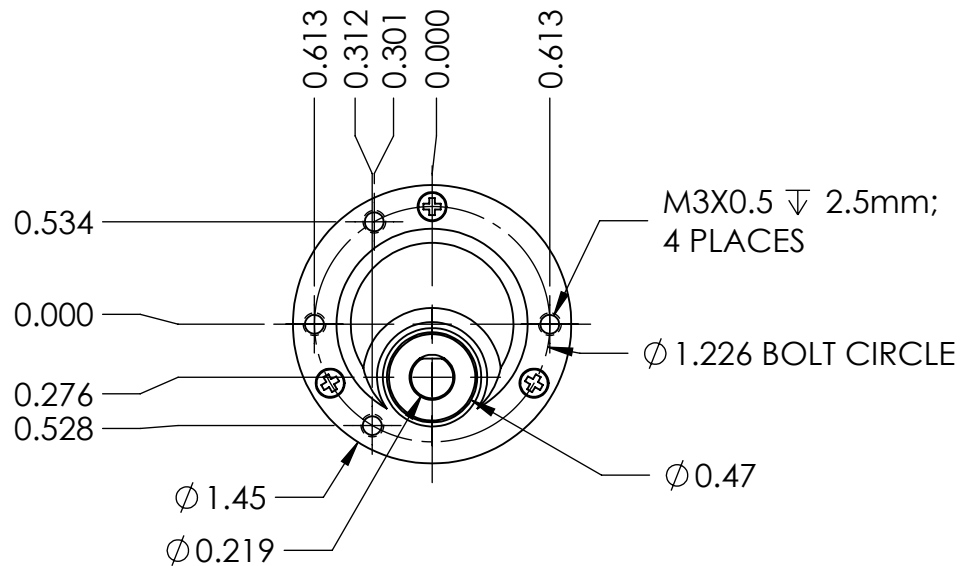
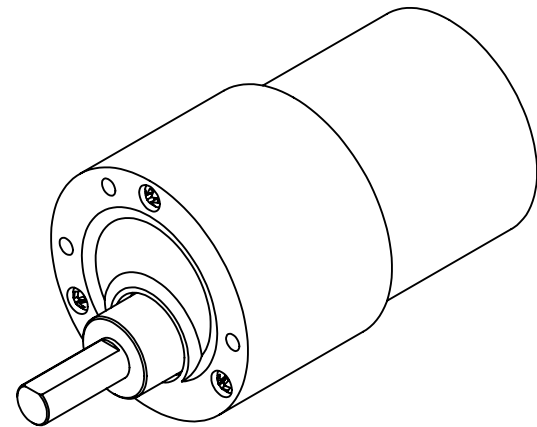
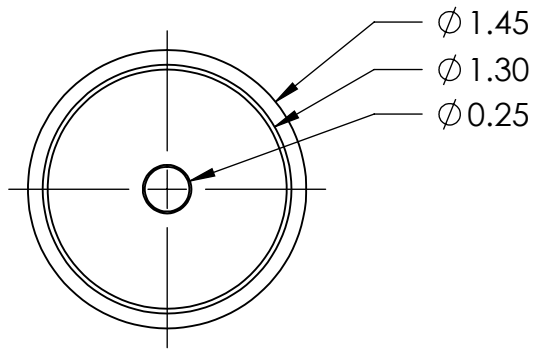
DRAWN MARK YEN

DESIGNED MARK YEN

TOLERANCE UNLESS NOTED			
DIMENSION TYPE	PLACES IN DIMENSION		
	0.0	0.00	0.000
LOCATIONAL	±0.050	±0.020	±0.005
ANGULAR	±5	±2	±0.5

SIZE	DWG. NO.	REV
A	EML2322L-A-012	A

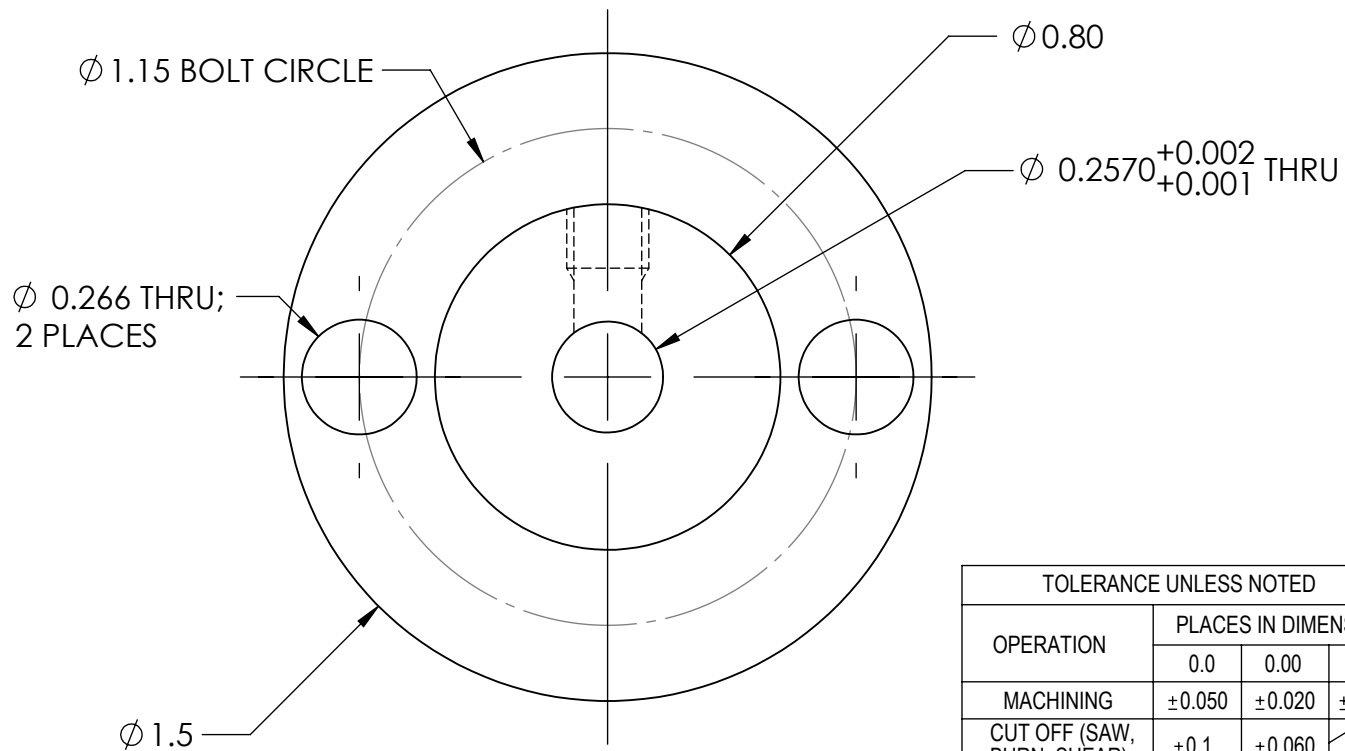
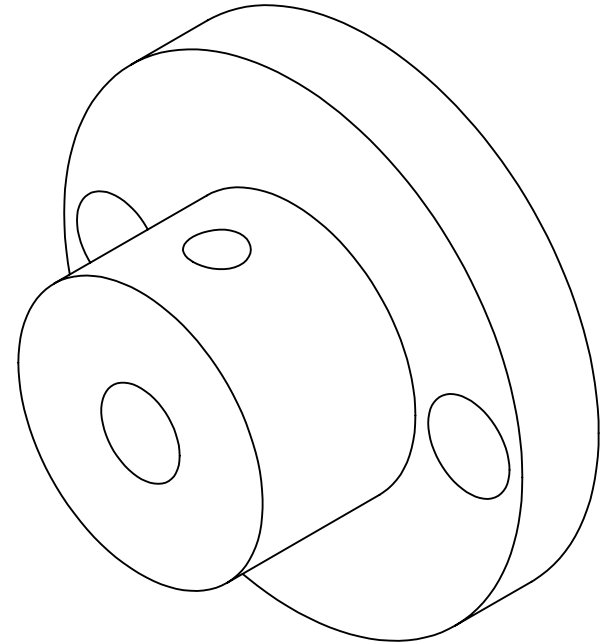
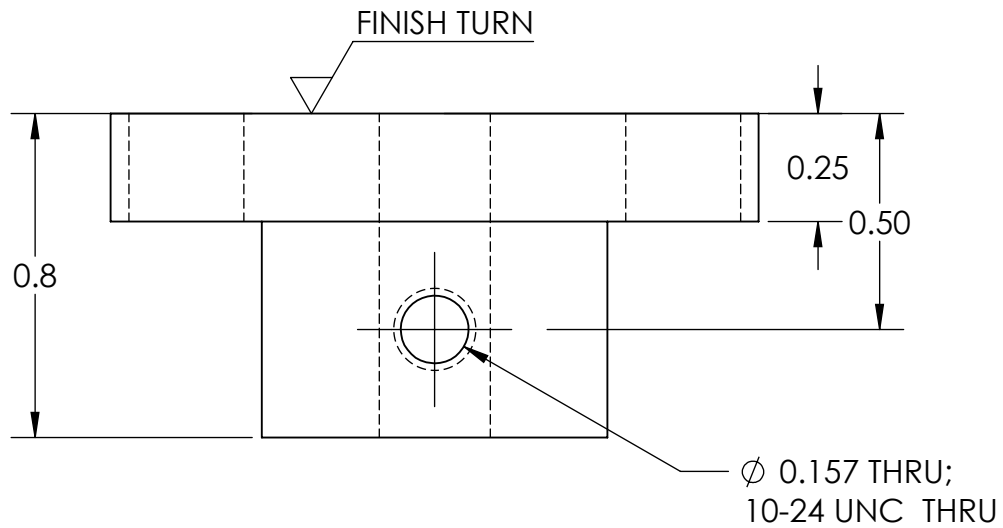
SCALE: 1:1	SHEET 4 OF 4
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NOTES:

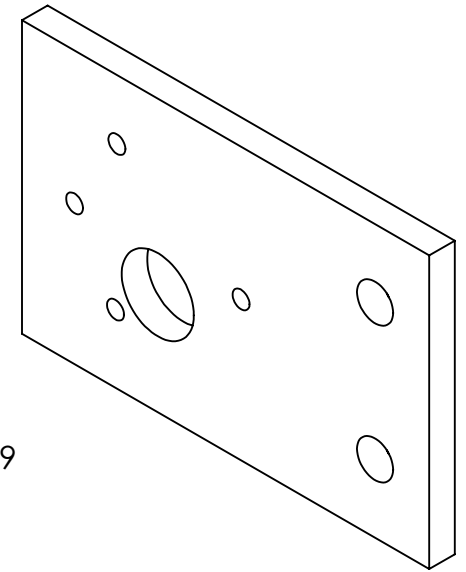
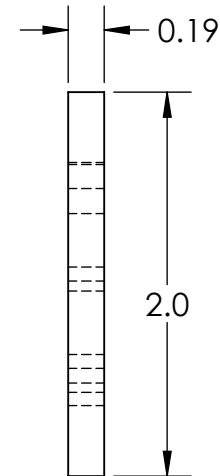
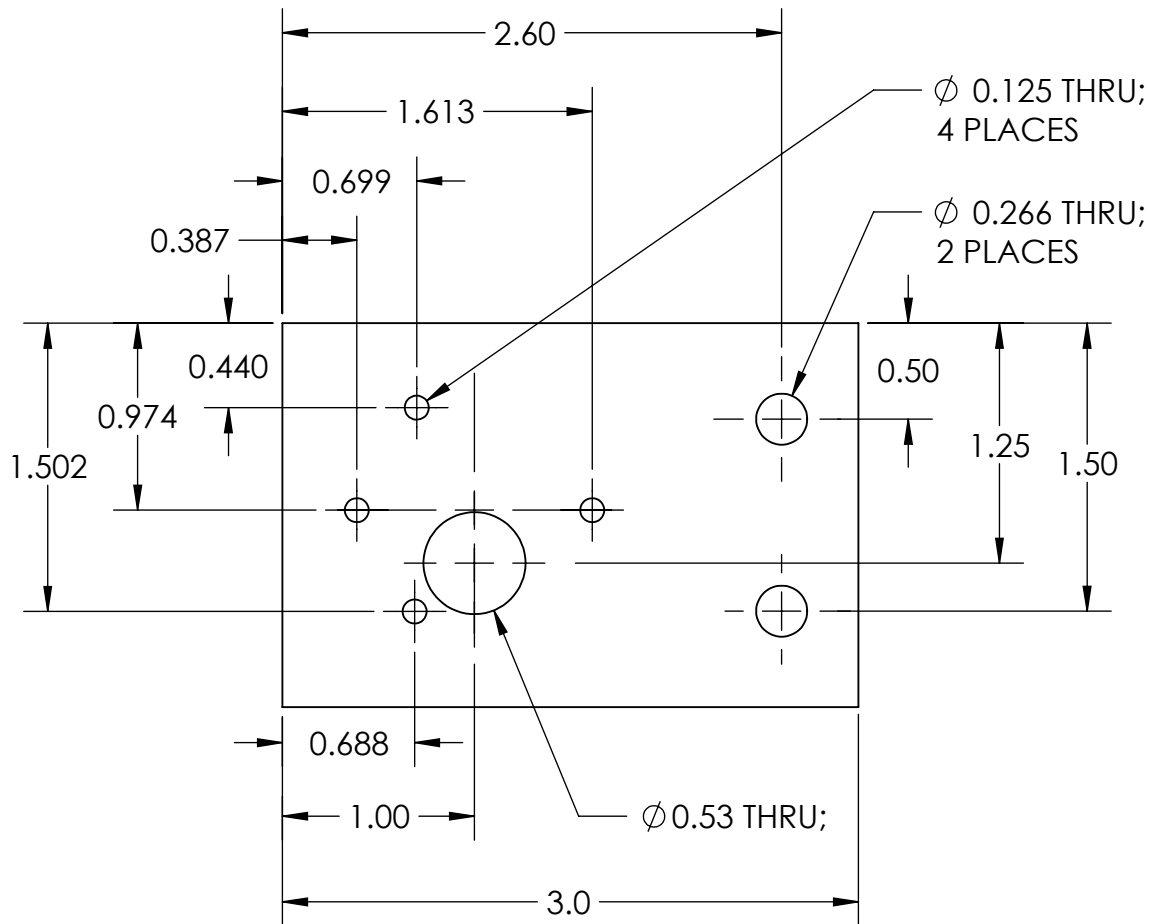
1. DIMS IN INCHES
2. QTY SPECIFIED IN BOM
3. DIMS AND MAT'L SPECIFIED BY MANUFACTURER

TOLERANCE UNLESS NOTED				TITLE:		
MEASURING INSTRUMENT	PLACES IN DIMENSION			15 RPM SEI Gear Motor		
	0.0	0.00	0.000	DRAWN	A. LEWIS	
CALIPERS			±0.005	DESIGNED	SEI	
PRECISION RULER		±0.015		SIZE	DWG. NO.	REV
TAPE MEASURE	±0.030			A	EML2322L-0025	A
PROTRACTOR	±10	±5	±2	SCALE: 1:1		SHEET 1 OF 1



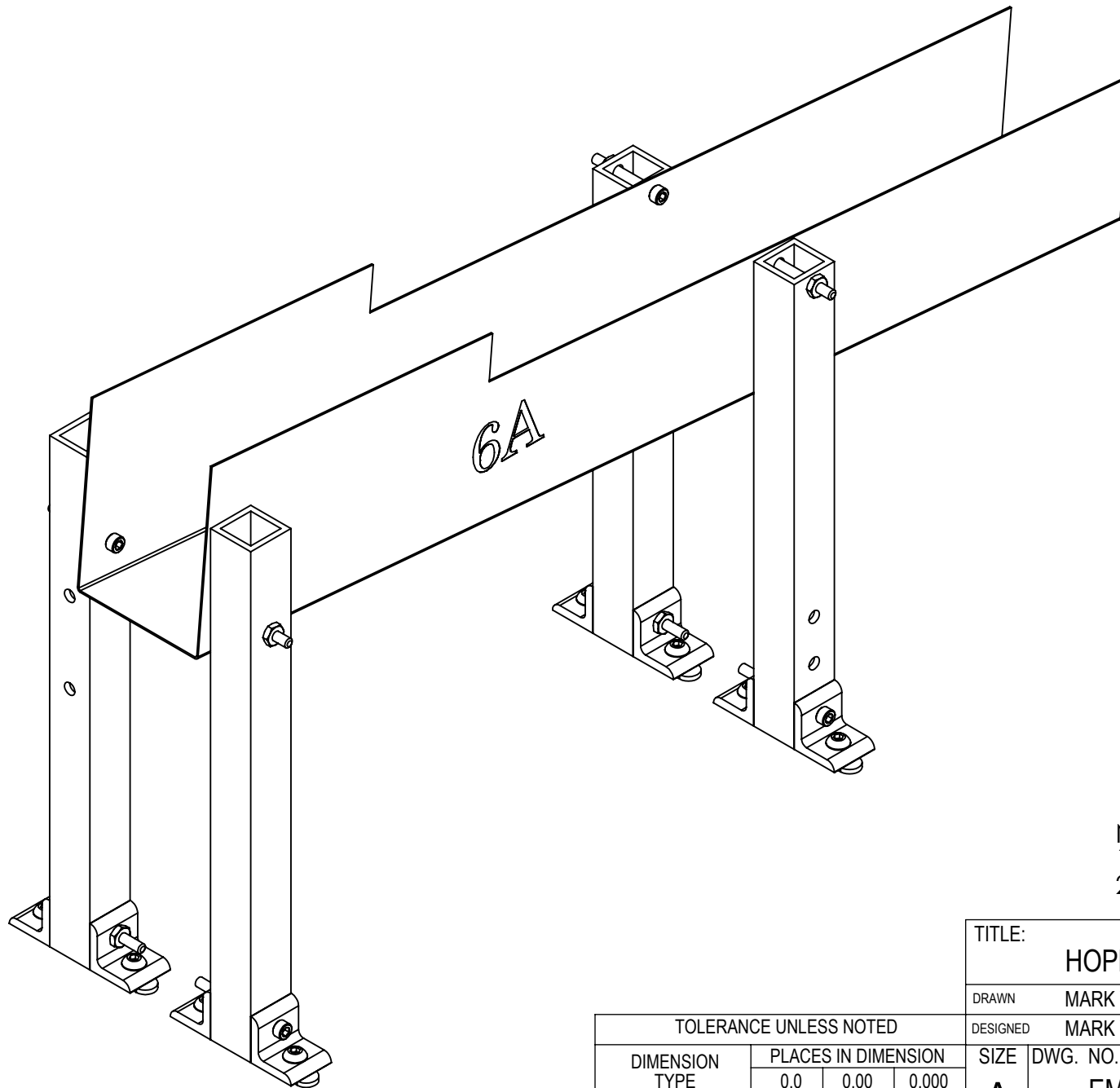
- NOTES:
1. QTY: 1
 2. ALL DIMS IN INCHES
 3. MATL: ALUMINUM
 4. FINISH NOTED SURFACE(S)
 5. BREAK ALL EDGES

TOLERANCE UNLESS NOTED				TITLE:		
OPERATION	PLACES IN DIMENSION			BUCKET MANIPULATOR MOTOR HUB		
	0.0	0.00	0.000	DRAWN	MARK YEN	
MACHINING	±0.050	±0.020	±0.005	DESIGNED	MARK YEN	
CUT OFF (SAW, BURN, SHEAR)	±0.1	±0.060		SIZE	DWG. NO.	REV
WELDING	±0.1	±0.060		A	EML2322L-0026	A
ANGULAR DIMS	±5	±2	±0.5	SCALE: 9:4	SHEET 1 OF 1	



- NOTES:
1. QTY: 1
 2. ALL DIMS IN INCHES
 3. MATL: ALUMINUM
 4. UNFINISHED SURFACES UNLESS NOTED
 5. BREAK ALL EDGES

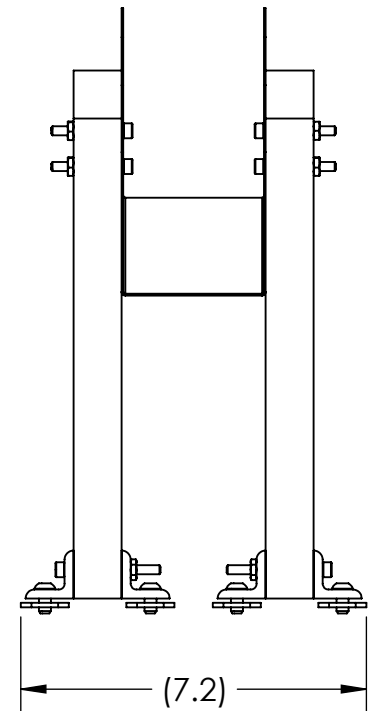
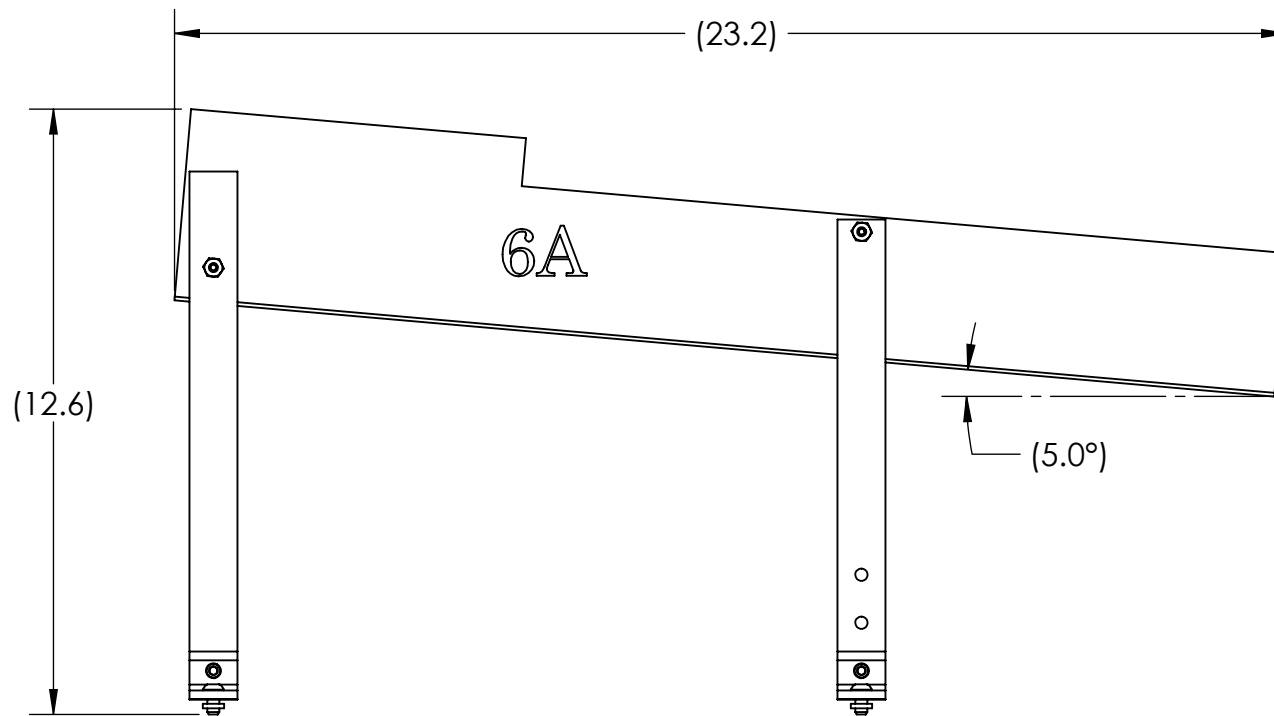
TOLERANCE UNLESS NOTED				TITLE:		
OPERATION	PLACES IN DIMENSION			BUCKET MANIPULATOR MOTOR MOUNT		
	0.0	0.00	0.000	DRAWN	MARK YEN	
MACHINING	±0.050	±0.020	±0.005	DESIGNED	MARK YEN	
CUT OFF (SAW, BURN, SHEAR)	±0.1	±0.060		SIZE	DWG. NO.	REV
WELDING	±0.1	±0.060		A	EML2322L-0027	A
ANGULAR DIMS	±5	±2	±0.5	SCALE: 1:1	SHEET 1 OF 1	



- NOTES:
 1. DIMS IN INCHES
 2. QTY: 1

TITLE:				HOPPER ASSEMBLY		
DRAWN				MARK YEN		
DESIGNED				MARK YEN		
SIZE		DWG. NO.			REV	
A		EML2322L-A-013			A	
SCALE: 4:11					SHEET 1 OF 4	

TOLERANCE UNLESS NOTED			
DIMENSION TYPE	PLACES IN DIMENSION		
	0.0	0.00	0.000
LOCATIONAL	± 0.050	± 0.020	± 0.005
ANGULAR	± 5	± 2	± 0.5



- NOTES:
 1. DIMS IN INCHES
 2. QTY: 1

TITLE:			
HOPPER ASSEMBLY			
DRAWN MARK YEN			
DESIGNED MARK YEN			
SIZE	DWG. NO.		REV
A	EML2322L-A-013		A
SCALE: 1:4		SHEET 2 OF 4	

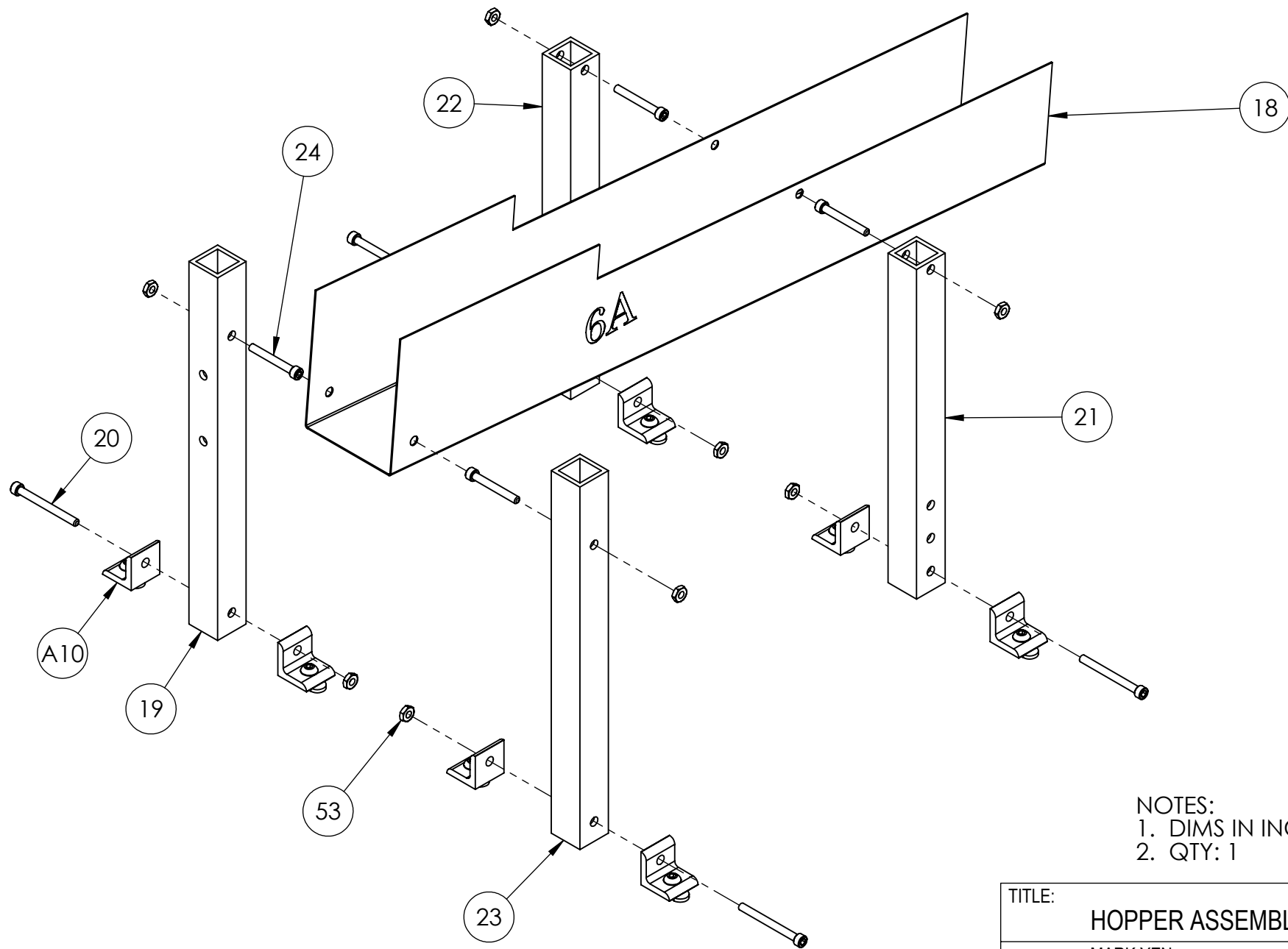
TOLERANCE UNLESS NOTED			
DIMENSION TYPE	PLACES IN DIMENSION		
	0.0	0.00	0.000
LOCATIONAL	±0.050	±0.020	±0.005
ANGULAR	±5	±2	±0.5

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
18	EML2322L-0018	BALL HOPPER - FOLDED	1
19	EML2322L-0019	11 in AL TUBING WITH HOLES FOR MOTOR	1
20	EML2322L-0020	10-24 x 2 in SOCKET HEAD SCREW	4
21	EML2322L-0021	10 in AL TUBING WITH HOLES FOR MOTOR	1
22	EML2322L-0022	10 in AL TUBING WITH NO HOLES	1
23	EML2322L-0023	11 in AL TUBING WITH NO HOLES	1
24	EML2322L-0024	10-24 x 1.5 in SOCKET HEAD SCREW	4
53	EML2322L-0053	10-24 HEX NUT	8
A10	EML2322L-A-010	90-DEGREE BRACKET ASSEMBLY	8

NOTES:
 1. DIMS IN INCHES
 2. QTY: 1

TITLE: HOPPER ASSEMBLY			
DRAWN		MARK YEN	
DESIGNED		MARK YEN	
SIZE	DWG. NO.		REV
A	EML2322L-A-013		A
SCALE: 1:8		SHEET 3 OF 4	

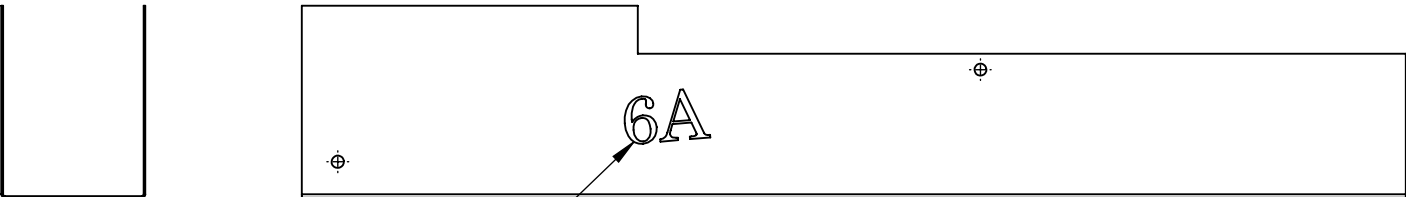
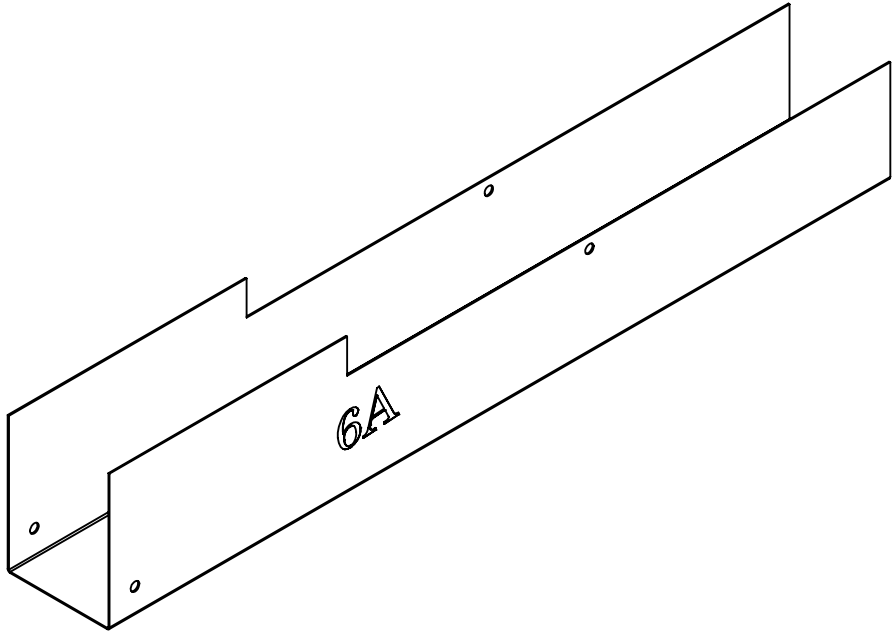
TOLERANCE UNLESS NOTED			
DIMENSION TYPE	PLACES IN DIMENSION		
	0.0	0.00	0.000
LOCATIONAL	±0.050	±0.020	±0.005
ANGULAR	±5	±2	±0.5



NOTES:
1. DIMS IN INCHES
2. QTY: 1

TITLE: HOPPER ASSEMBLY				
DRAWN MARK YEN				
DESIGNED MARK YEN				
SIZE	DWG. NO.			REV
A	EML2322L-A-013			A
SCALE: 1:3.5		SHEET 4 OF 4		

DIMENSION TYPE	TOLERANCE UNLESS NOTED		
	0.0	0.00	0.000
LOCATIONAL	±0.050	±0.020	±0.005
ANGULAR	±5	±2	±0.5

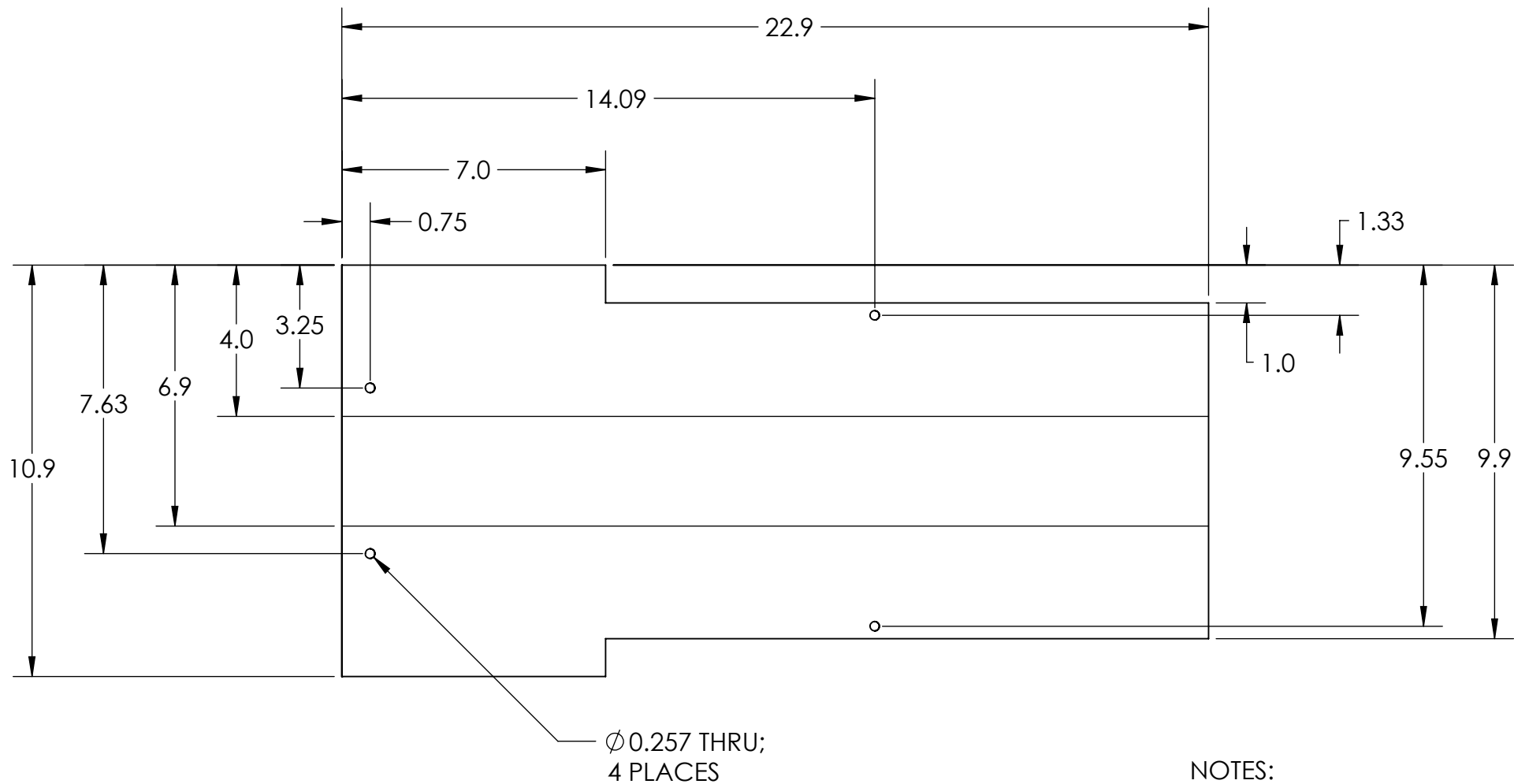


SINCE THE HOPPER WILL BE AT AN ANGLE DURING ASSEMBLY, THE GROUP NUMBER WILL BE WRITTEN AT AN ANGLE TO APPEAR LEVEL DURING ASSEMBLY.

- NOTES:
- 1. DIMS IN INCHES
 - 2. QTY: 1
 - 3. MATL: 20 GAGE STEEL
 - 4. UNFINISHED SURFACES
 - 5. BREAK ALL EDGES

FOLDED VIEW

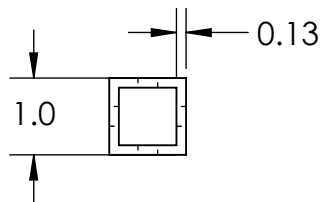
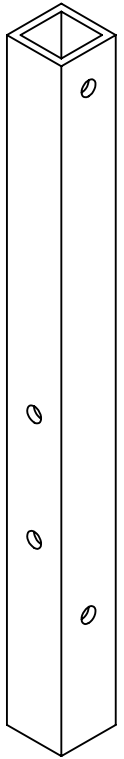
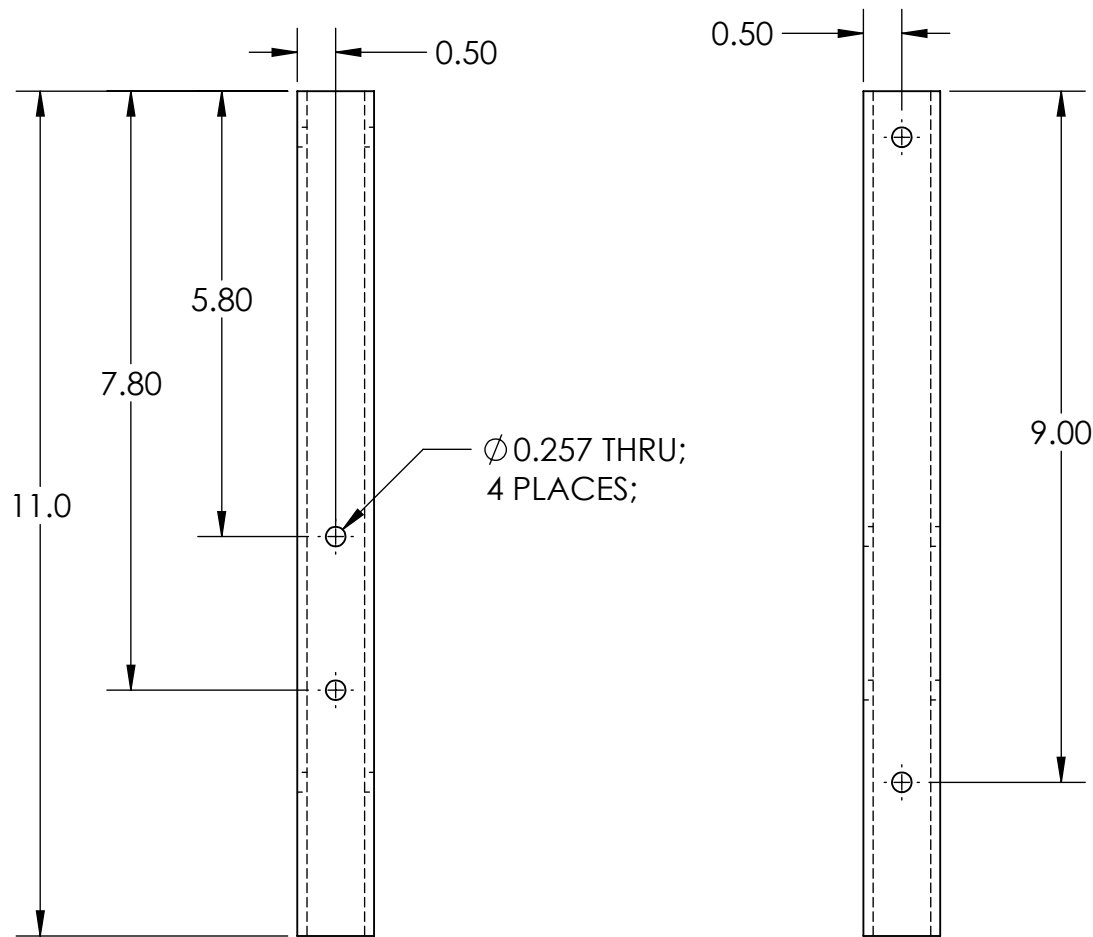
TOLERANCE UNLESS NOTED				TITLE:		
OPERATION	PLACES IN DIMENSION			BALL HOPPER - FOLDED		
	0.0	0.00	0.000	DRAWN	MARK YEN	
MACHINING				DESIGNED	MARK YEN	
SHEETMETAL (SHEAR, BEND)	±0.1	±0.060	±0.030	SIZE	DWG. NO.	REV
WELDING	±0.1	±0.060		A	EML2322L-0018	A
ANGULAR DIMS	±5	±2		SCALE: 1:4		SHEET 1 OF 2



- NOTES:
 1.DIMS IN INCHES
 2.QTY: 1
 3.MATL: 20 GAGE STEEL
 4.UNFINISHED SURFACES
 5.BREAK ALL EDGES

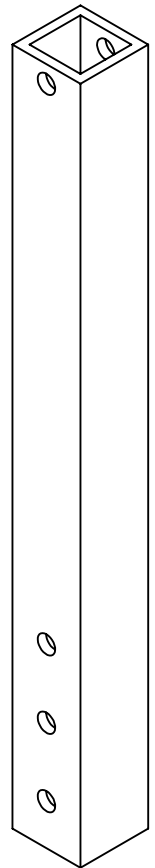
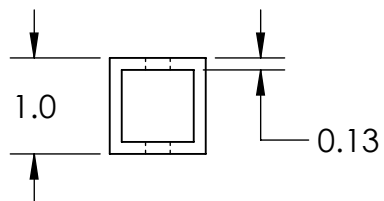
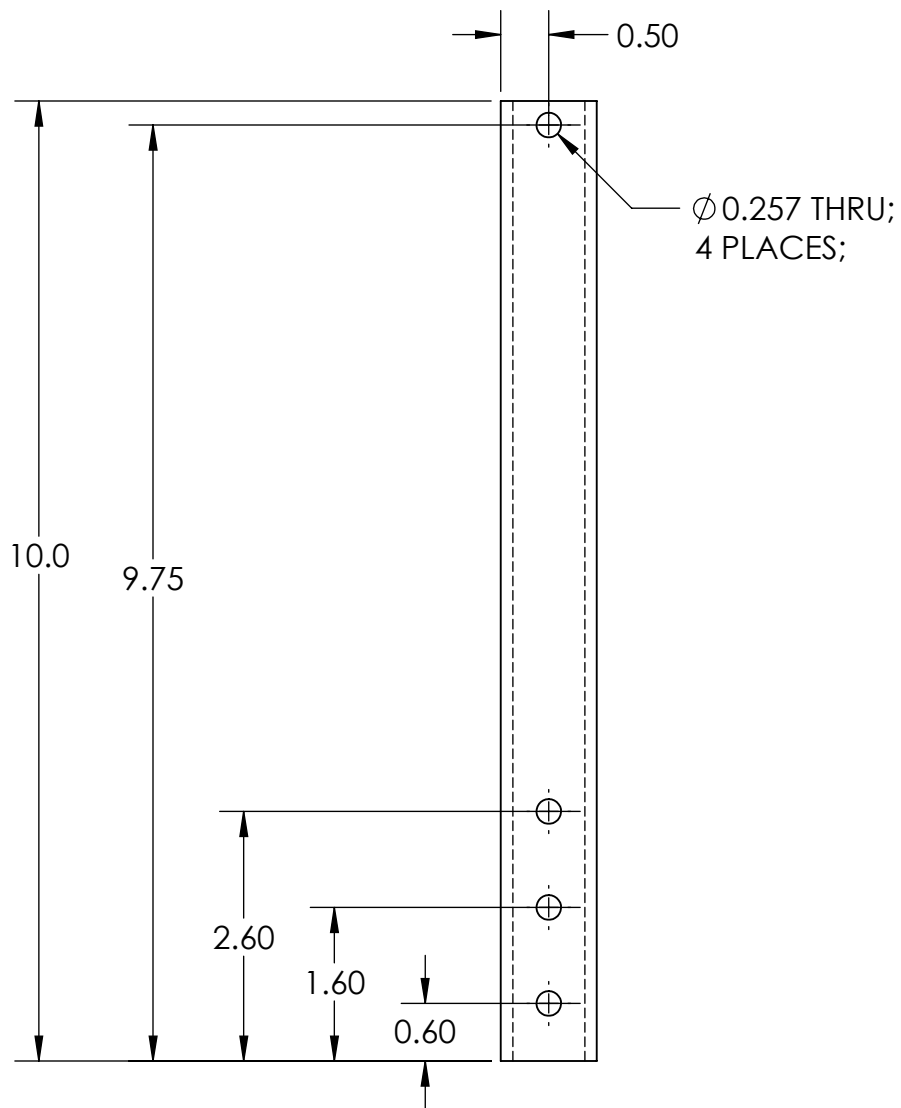
UNFOLDED VIEW

TOLERANCE UNLESS NOTED				TITLE:		
OPERATION	PLACES IN DIMENSION			BALL HOPPER - UNFOLDED		
	0.0	0.00	0.000	DRAWN	MARK YEN	
MACHINING				DESIGNED	MARK YEN	
SHEETMETAL (SHEAR, BEND)	±0.1	±0.060	±0.030	SIZE	DWG. NO.	REV
WELDING	±0.1	±0.060		A	EML2322L-0018	A
ANGULAR DIMS	±5	±2		SCALE: 1:4		SHEET 2 OF 2



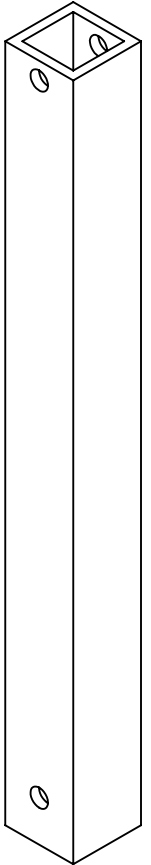
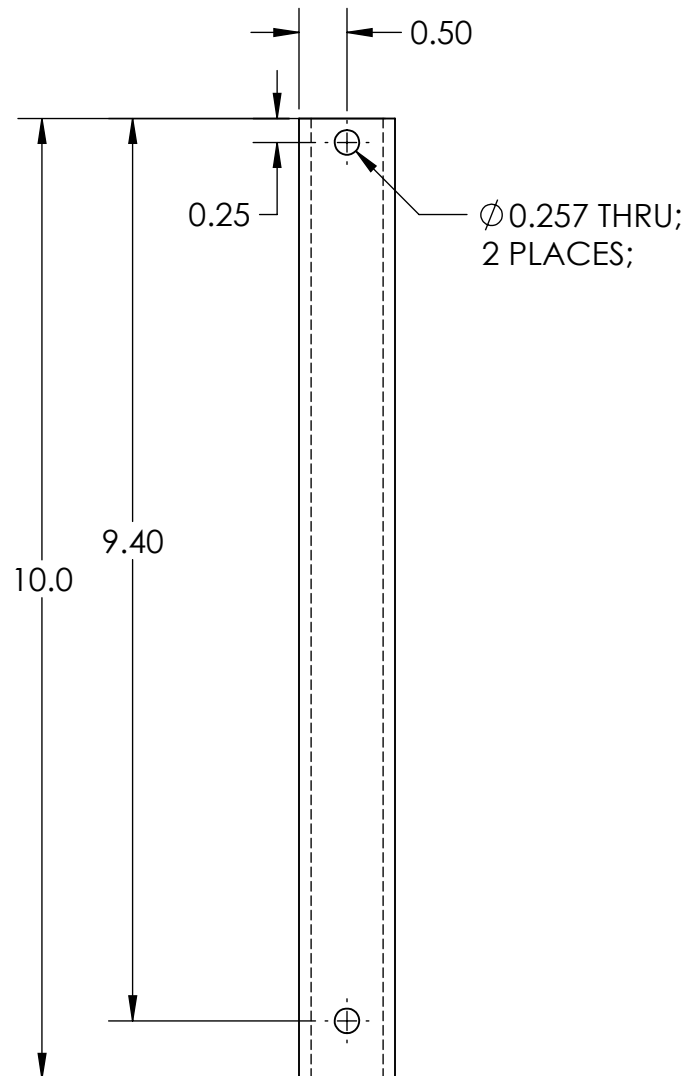
- NOTES:
1. QTY: 1
 2. ALL DIMS IN INCHES
 3. MATL: ALUMINUM
 4. UNFINISHED SURFACES
UNLESS NOTED
 5. BREAK ALL EDGES

TOLERANCE UNLESS NOTED				TITLE:		
OPERATION	PLACES IN DIMENSION			11 in AL TUBING WITH HOLES FOR MOTOR		
	0.0	0.00	0.000	DRAWN	MARK YEN	
MACHINING	±0.050	±0.020	±0.005	DESIGNED	MARK YEN	
CUT OFF (SAW, BURN, SHEAR)	±0.1	±0.060		SIZE	DWG. NO.	REV
WELDING	±0.1	±0.060		A	EML2322L-0019	A
ANGULAR DIMS	±5	±2	±0.5	SCALE: 2:5		SHEET 1 OF 1

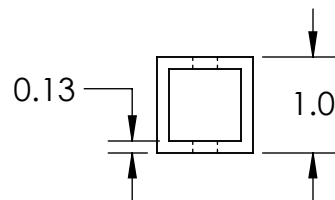


- NOTES:
 1. QTY: 1
 2. ALL DIMS IN INCHES
 3. MATL: ALUMINUM
 4. UNFINISHED SURFACES
 UNLESS NOTED
 5. BREAK ALL EDGES

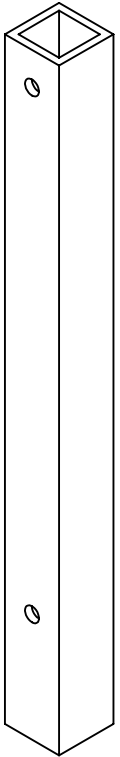
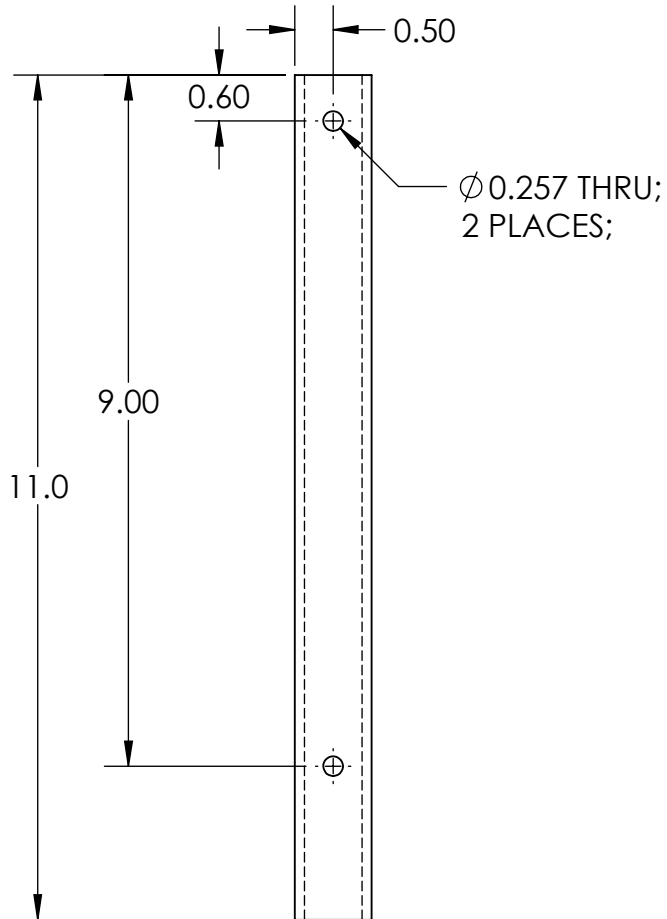
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OPERATION	PLACES IN DIMENSION						
	0.0	0.00	0.000	DRAWN MARK YEN			
MACHINING	±0.050	±0.020	±0.005	DESIGNED MARK YEN			
CUT OFF (SAW, BURN, SHEAR)	±0.1	±0.060	<div></div>	SIZE	DWG. NO.		REV
WELDING	±0.1	±0.060	<div></div>	A	EML2322L-0021		A
ANGULAR DIMS	±5	±2	±0.5	SCALE: 1:2		SHEET 1 OF 1	



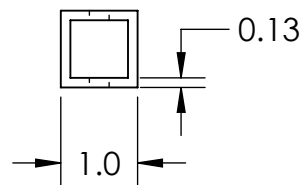
- NOTES:
1. QTY: 1
 2. ALL DIMS IN INCHES
 3. MATL: ALUMINUM
 4. UNFINISHED SURFACES
UNLESS NOTED
 5. BREAK ALL EDGES



TOLERANCE UNLESS NOTED				TITLE:		
OPERATION	PLACES IN DIMENSION			10 in AL TUBING WITH NO HOLES		
	0.0	0.00	0.000	DRAWN	MARK YEN	
MACHINING	±0.050	±0.020	±0.005	DESIGNED	MARK YEN	
CUT OFF (SAW, BURN, SHEAR)	±0.1	±0.060		SIZE	DWG. NO.	REV
WELDING	±0.1	±0.060		A	EML2322L-0022	A
ANGULAR DIMS	±5	±2	±0.5	SCALE: 1:2		SHEET 1 OF 1



- NOTES:
1. QTY: 1
 2. ALL DIMS IN INCHES
 3. MATL: ALUMINUM
 4. UNFINISHED SURFACES
UNLESS NOTED
 5. BREAK ALL EDGES



TOLERANCE UNLESS NOTED				TITLE:		
OPERATION	PLACES IN DIMENSION			11 in AL TUBING WITH NO HOLES		
	0.0	0.00	0.000	DRAWN	MARK YEN	
MACHINING	± 0.050	± 0.020	± 0.005	DESIGNED	MARK YEN	
CUT OFF (SAW, BURN, SHEAR)	± 0.1	± 0.060		SIZE	DWG. NO.	REV
WELDING	± 0.1	± 0.060		A	EML2322L-0023	A
ANGULAR DIMS	± 5	± 2	± 0.5	SCALE: 2:5		SHEET 1 OF 1